

Claims

What is claimed is:

1. A method of providing addresses to be used in a verification environment, said method comprising:

generating one or more addresses having one or more attributes associated therewith, wherein the generating of at least one address of the one or more addresses is based on at least one selection attribute to be used in selecting at least one address of the one or more addresses; and

selecting at least one address to be forwarded to a component under test in a verification environment from the one or more generated addresses, the selecting employing a filter specifying at least one selection attribute that corresponds to at least one attribute of the one or more attributes, wherein said generating and said selecting are controlled to ensure at least one address is selected that satisfies the filter.

2. The method of claim 1, wherein the generating comprises generating a single list of the one or more addresses, wherein the single list is searchable based on attributes.

3. The method of claim 2, wherein the single list is subdividable into one or more groups based on attributes.

4. The method of claim 1, wherein the generating of at least one address of the one or more addresses is based on one or more constraints.

5. The method of claim 1, wherein the generating of at least one address of the one or more addresses comprises employing a user defined generator function.

6. The method of claim 1, further comprising defining the one or more attributes associated with the one or more addresses.

7. The method of claim 1, wherein the one or more attributes and the at least one selection attribute specified in the filter are maintained in a same class.

8. The method of claim 1, wherein the selecting comprises further employing a user defined selector function to select at least one address.

9. The method of claim 1, wherein at least one attribute of the one or more attributes enables one or more generated addresses having the at least one attribute to be assigned to a particular requestor.

10. The method of claim 1, wherein the selecting comprises creating a list of the at least one address satisfying the filter, and further comprising dynamically changing the list, in response to a change to one or more attributes of the one or more generated addresses.

11. A system of providing addresses to be used in a verification environment, said system comprising:

means for generating one or more addresses having one or more attributes associated therewith, wherein the generating of at least one address of the one or more addresses is based on at least one selection attribute to be used in selecting at least one address of the one or more addresses; and

means for selecting at least one address to be forwarded to a component under test in a verification environment from the one or more generated addresses, the means for selecting employing a filter specifying at least one selection attribute that corresponds to at least one attribute of the one or more attributes, and wherein the generating and the selecting are controlled to ensure at least one address is selected that satisfies the filter.

12. The system of claim 11, wherein the means for generating comprises means for generating a single list of the one or more addresses, wherein the single list is searchable based on attributes.

13. The system of claim 12, wherein the single list is subdividable into one or more groups based on attributes.

14. The system of claim 11, wherein the generating of at least one address of the one or more addresses is based on one or more constraints.

15. The system of claim 11, wherein the means for generating of at least one address of the one or more addresses comprises means for employing a user defined generator function.

16. The system of claim 11, further comprising means for defining the one or more attributes associated with the one or more addresses.

17. The system of claim 11, wherein the one or more attributes and the at least one selection attribute specified in the filter are maintained in a same class.

18. The system of claim 11, wherein the means for selecting further comprises means for employing a user defined selector function to select at least one address.

19. The system of claim 11, wherein at least one attribute of the one or more attributes enables one or more generated addresses having the at least one attribute to be assigned to a particular requestor.

20. The system of claim 11, wherein the means for selecting comprises means for creating a list of the at least one address satisfying the filter, and further comprising means for dynamically changing the list, in response to a change to one or more attributes of the one or more generated addresses.

21. A system of providing addresses to be used in a verification environment, said system comprising:

a generator adapted to generate one or more addresses having one or more attributes associated therewith, wherein the generating of at least one address of the one or more addresses is based on at least one selection attribute to be used in selecting at least one address of the one or more addresses; and

a selector adapted to select at least one address to be forwarded to a component under test in a verification environment from the one or more generated addresses, the selector employing a filter specifying at least one selection attribute that corresponds to at least one attribute of the one or more attributes, wherein said generating and said selecting are controlled to ensure at least one address is selected that satisfies the filter.

22. An article of manufacture comprising:

at least one computer usable medium having computer readable program code logic to provide addresses to be used in a verification environment, the computer readable program code logic comprising:

generate logic to generate one or more addresses having one or more attributes associated therewith, wherein the generating of at least one address of the one or more addresses is based on at least one selection attribute to be used in selecting at least one address of the one or more addresses; and

select logic to select at least one address to be forwarded to a component under test in a verification environment from the one or more generated addresses, the select logic employing a filter specifying at least one selection attribute that corresponds to at least one attribute of the one or more attributes, and wherein the generating and the selecting are controlled to ensure at least one address is selected that satisfies the filter.

23. The article of manufacture of claim 22, wherein the generate logic comprises logic to generate a single list of the one or more addresses, wherein the single list is searchable based on attributes.

24. The article of manufacture of claim 23, wherein the single list is subdividable into one or more groups based on attributes.

25. The article of manufacture of claim 22, wherein the generating of at least one address of the one or more addresses is based on one or more constraints.

26. The article of manufacture of claim 22, wherein the generating of at least one address of the one or more addresses comprises employ logic to employ a user defined generator function.

27. The article of manufacture of claim 22, further comprising define logic to define the one or more attributes associated with the one or more addresses.

28. The article of manufacture of claim 22, wherein the one or more attributes and the at least one selection attribute specified in the filter are maintained in a same class.

29. The article of manufacture of claim 22, wherein the select logic further comprises employ logic to employ a user defined selector function to select at least one address.

30. The article of manufacture of claim 22, wherein at least one attribute of the one or more attributes enables one or more generated addresses having the at least one attribute to be assigned to a particular requestor.

31. The article of manufacture of claim 22, wherein the select logic comprises create logic to create a list of the at least one address satisfying the filter, and further comprising change logic to dynamically change the list, in response to a change to one or more attributes of the one or more generated addresses.

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